

Sandia National Laboratories Facilities Management & Operations Center Uniform Drawing Numbering System (Modified UDS)

1 Level 1 Discipline Designator (Mandatory) AANNNUUU.dgn

1.1 Disciplines

A	Architectural
B	Geotechnical
C	Civil
D	Process
E	Electrical
F	Fire Protection
G	General
H	Hazardous Materials
I	Interiors
L	Landscape
M	Mechanical
O	Operations
P	Plumbing and Process
Q	Equipment
R	Resource
S	Structural
T	Telecommunications
V	Survey/Mapping
W	Civil Work (Exterior Utilities)
X	Other Disciplines
Z	Contractor/Shop Drawings

2 Level 2 Discipline Designator - Modifier Character (Optional)

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- If no Discipline Modifier is needed, then a dash – is used as a holding spot: A-NNUUU.dgn

2.1 Discipline Modifier

A - Architectural

Discipline	Discipline Modifier	Description of Suggested Names	Content
	D	Architectural Demolition	Protection and removal
	E	Architectural Elements	General Architectural
	F	Architectural Finishes	Tile & Carpet
	G	Architectural Graphics	Reflected Ceilings
	I	Architectural Interiors	Partitions
	J	Storage Enclosure	
	K	User Defined	
A	S *	Architectural Site	See discipline modifier “C”

B - Geotechnical

Discipline	Discipline Modifier	Description of Suggested Names	Content
B			
	J	User Defined	
	K	User Defined	

C - Civil

Discipline	Discipline Modifier	Description of Suggested Names	Content
C	D	Civil Demolition	Structure removal and site clearing
	G	Civil Grading	Excavation, grading, drainage, retention ponds
	I	Civil Improvements	Pavers, flagstone, exterior tile, furnishings, retaining walls, and water features, Permanent Signing, Striping and Bumpers.
	J	User Defined	
	K	User Defined	
	P	Civil Paving	Roads, bridges, drives and parking lots
	S	Civil Survey (Site)	Plats, topographic, dimension control, Layouts
	T	Civil Transportation	Waterway construction, wharves, docks, trams, railway systems, and people movers
	U *	Civil Utilities	See discipline "W" for exterior utilities

D - Process

Discipline	Discipline Modifier	Description of Suggested Names	Content
D	D	Process/Plumbing Demolition	Protection, termination, and removal.
	E	Process Electrical	Electrical exclusively associated with a process and not the facility
	I	Process Instrumentation	Instrumentation, measurement, recorders, devices and controllers (electrical and mechanical)
	J	Process Gasses	Piping, valves, insulation, tanks, pumps
	K	Process Shop Drawings	
	P	Process Liquids Piping	Piping, valves, insulation, tanks, pumps
	Q	Process Equipment	Systems and equipment for thermal, electrical, materials handling, assembly and manufacturing, nuclear power generation, chemical, refrigeration, and industrial processes
	S *	Plumbing Site	See discipline "W" for exterior utilities

E - Electrical (See W for electrical exterior site lighting and exterior power)

Discipline	Discipline Modifier	Description of Suggested Names	Content
E	S	Electrical Site	Extension and connection to Civil Works (Utilities), Lightning, Grounding
	D	Electrical Demolition	Protection, termination, and removal
	P	Electrical Power	Power
	J	Electrical Receptacle	Receptacle
	K	Underfloor	Underfloor
	L	Electrical Lighting	
	I	Electrical Instrumentation	Controls, relays, instrumentation, and measurement devices
	T *	Electrical Telecommunications	See discipline "T" for telecommunications and security
	Y	Electrical Auxiliary Systems	

F - Fire Protection

Discipline	Discipline Modifier	Description of Suggested Names	Content
F	A	Fire Detection and Alarm	
	J	User Defined	
	K	User Defined	
	X	Fire Suppression	Fire extinguishing systems and equipment

G - General

Discipline	Discipline Modifier	Description of Suggested Names	Content
G			Master Cut Files, Key plans, Evacuation Maps
	I	General Information	Drawing Index, Code Summary, Symbol Legend, Orientation Maps
	C	General Contractual	Phasing, schedules, contractor staging areas, fencing, haul routes, erosion control, temporary and special requirements
	J	User Defined	
	K	User Defined	
	R	General Resource	Photographs, soil borings

H - Hazardous Materials

Discipline	Discipline Modifier	Description of Suggested Names	Content
H	A	Asbestos	Asbestos abatement, identification or containment
	C	Chemicals	Toxic chemicals handling, removal or storage
	J	User Defined	
	K	User Defined	
	L	Lead	Lead piping or paint removal
	P	PCB	PCB containment and removal
	R	Refrigerants	Ozone depleting refrigerants

I - Interiors

Discipline	Discipline Modifier	Description of Suggested Names	Content
I	D	Interior Demolition	
	F	Interior Furnishings	
	G	Interior Graphics	Murals and visuals
	J	User Defined	
	K	User Defined	
	N	Interior Design	

L - Landscape

Discipline	Discipline Modifier	Description of Suggested Names	Content
L	D	Landscape Demolition	Protection and removal of existing landscaping
	I	Landscape Irrigation	
	J	User Defined	
	K	User Defined	
	P	Landscape Planting	

M - Mechanical (See W for mechanical exterior site work)

Discipline	Discipline Modifier	Description of Suggested Names	Content
M	D	Mechanical Demolition	Protection, termination, and removal
	H	Mechanical HVAC	Ductwork, air devices, equipment and exhaust
	I	Mechanical Instrumentation Controls	Instrumentation and controls. Includes Facilities Control System (FCS) and old EMCS
	J	Exhaust Only Systems	Use only when Exhaust is deviled out
	K	User Defined	
	P	Mechanical Piping	Chilled and heating water, steam, tower water
	S *	Mechanical Site	See discipline "W" for exterior utilities

O – Operations (Reserved for Essential Drawings)

Discipline	Discipline Modifier	Description of Suggested Names	Content
O	A	Operational Architectural	
	B	Operational Geotechnical	
	C	Operational Civil	
	D	Operational Process	
	E	Operational Electrical	
	F	Operational Fire Protection	
	G	Operational General	
	H	Operational Hazardous Materials	
	I	Operational Interiors	
	J	User Defined	
	K	User Defined	
	L	Operational Landscape	
	M	Operational Mechanical	
	P	Operational Plumbing	
	Q	Operational Equipment	
	R	Operational Resource	
	S	Operational Structural	
	T	Operational Telecommunications	
	V	Operational Survey/Mapping	
	W	Operational Civil Work	
	X	Operational Other Disciplines	
	Z	Operational Contractor/Shop Drawing	

P - Plumbing

Discipline	Discipline Modifier	Description of Suggested Names	Content
P	D	Plumbing Demolition	Protection, termination, and removal.
	E *	Process Electrical	See discipline "D" for process
	I *	Process Instrumentation	See discipline "D" for process
	J	User Defined	
	K	User Defined	
	L	Plumbing	Domestic water, sanitary and storm drainage fixtures
	P	Piping	Piping, valves, insulation, tanks, pumps. For process piping see "DP"
	Q	Systems Gases	Systems and equipment for thermal, electrical, materials handling, assembly and manufacturing, nuclear, power generation, chemical, refrigeration, and industrial processes
	S *	Plumbing Site	See discipline "W" for exterior utilities

Q – Equipment (Not yet used at Sandia; included for completeness)

Discipline	Discipline Modifier	Description of Suggested Names	Content
Q*	A	Athletic Equipment	Gymnasium, exercise, aquatic, and recreational
	B	Bank Equipment	Vaults, teller units, ATMs, drive-through
	C	Dry Clean Equipment	Washers, dryers, ironing, and dry cleaning
	D	Detention Equipment	Prisons and jails
	E	Educational Equipment	Chalkboards, library
	F	Food Service Equipment	Kitchen, bar, service, storage, and processing
	H	Hospital Equipment	Medical, exam, and treatment
	J	User Defined	
	K	User Defined	
	L	Laboratory Equipment	Science labs, planetariums, observatories
	M	Maintenance Equipment	Housekeeping, window washing, and vehicle servicing
	P	Parking Lot Equipment	Gates, ticket and card access
	R	Retail Equipment	Display, vending, and cash register
	S	Site Equipment	Bicycle racks, benches, playgrounds
	T	Theatrical Equipment	Stage, movie, rigging systems
	V	Video/Photographic Equipment	Television, darkroom, and studio
	Y	Security Equipment	Access control and monitoring, surveillance

R – Resource (Not yet used at Sandia; included for completeness)

Discipline	Discipline Modifier	Description of Suggested Names	Content
R*	A	Resource Architectural	Existing facility architectural drawings
	C	Resource Civil	Surveyor's information
	E	Resource Electrical	Existing facility electrical drawings
	J	User Defined	
	K	User Defined	
	M	Resource Mechanical	Existing facility mechanical drawings
	S	Resource Structural	Existing facility structural drawings

S - Structural

Discipline	Discipline Modifier	Description of Suggested Names	Content
S	B	Structural Substructure	Foundation, piers, slabs, and retaining walls
	D	Structural Demolition	Protection and removal
	F	Structural Framing	Floors and roofs, Misc. Struct. Framing
	J	User Defined	
	K	User Defined	
	S*	Structural Site	See discipline "C" for exterior site

T – Telecommunications**(Includes communications, security, access control systems, other systems as noted.)**

Discipline	Discipline Modifier	Description of Suggested Names	Content
T	A	Audio Visual	Cable, music, and CCTV systems
	C	Clock and Program	Time generators and bell program systems
	I	Intercom	Intercom and public address systems
	J	Red Data Network	Red communications
	K	User Defined	
	M	Monitoring	Monitoring, alarm systems, special alarms
	N	Data Networks	Network cabling, equipment and black communications
	T	Telephone	Telephone systems, wiring, and equipment
	Y	Security	Access control and alarm systems, Intrusion alarm
			See discipline "W" for exterior utilities

V - Survey/Mapping

Discipline	Discipline Modifier	Description of Suggested Names	Content
V	A	Aerial Photos	Photographs
	D	Demolition	
	E	Electrical	Traffic Signals
	F	Field Survey	Design Topo
	G	Natural Gas	
	H	Chilled Water	
	I	Digital Survey	
	J	Lighting	Parking Lot and Street Lighting
	K	Boundary	Land Use Permits, DOE Boundaries, Survey Const. Monuments
	L	LP Gas	
	M	Steam and Condensate	
	O	Fiber Optic	
	P	Power	
	R	Storm Sewer	
	S	Sanitary Sewer	
	U	Combined Utilities	
	V	Environmental	Monitor Wells, ER Site
	W	Water	

W - Civil Work (Exterior Utilities)

Discipline	Discipline Modifier	Description of Suggested Names	Content
W	D	Demolition	
	E	Electrical	Less than 120 volts, Traffic Signals, Exterior Communications, Security
	G	Natural Gas	
	H	Chilled Water	Tower Water, Reclamation Water
	J	Lighting	Street and Parking Lots
	K	User Defined	
	L	LP Gas	Oil
	M	Steam and Condensate	
	O*	Fiber Optic	See "WE"
	P	Power	Exterior Power – 120 volts and above
	R	Storm Sewer	
	S	Sanitary Sewer	
	U	Combined Utilities	
	V*	Cable TV	See "WE"
	W	Water	

X - Other Disciplines

Discipline	Discipline Modifier	Description of Suggested Names	Content
X			

Z – Contractor's Shop Drawings

Discipline	Discipline Modifier	Description of Suggested Names	Content
Z			

NOTE: An asterisk * in above tables denotes "Not used at Sandia National Laboratories"

3 Sheet Type Designator

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3.1 Sheet Type

- 0 General (symbols legend, notes, etc)
- 1 Plans (horizontal views)
- 2 Elevations (vertical views)
- 3 Sections, Wall sections (sectional views)
- 4 Large Scale Views (plans, elevations, stair sections or sections that are not details)
- 5 Details
- 6 Schedules
- 7 Diagrams
- 8 User Defined (for types which do not fall in other categories)
- 9 3D Representations (isometrics, perspectives, photographs)

4 Sheet Sequence Number

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4.1 Sheet Sequence

Numeric count of Discipline, Discipline Modifier and Sheet Type Designator

001

002

099

100

5 Building Number or FGIS grid number (Can be more than three characters)

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5.1 Building number

No preceding "O". Example "0963" would be 963

Use entire building number, example: 6585A

5.2 FGIS Grid Numbers

Exterior files not associated with a building will use the FGIS Grid numbers.

Example: F12

- End -